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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/428,813	10/28/1999	SAMI INKINEN	297-008970-U	5161

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PERMAN & GREEN
425 POST ROAD
FAIRFIELD, CO 06430

EXAMINER

KUMAR, PANKAJ

ART UNIT	PAPER NUMBER
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2631

DATE MAILED: 12/18/2003

14

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/428,813

Applicant(s)

INKINEN ET AL.

Examiner

Pankaj Kumar

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8, 10-12 is/are rejected.
- 7) ☒ Claim(s) 9 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Response to Amendment

Claim Objections

2. Claim 8 and its dependent claims are objected to because of the following informalities:
Claim 8 says "the communicated data" when claim 8 should say "a communicated data".
Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
4. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
5. Claim 6 is rejected under 112 since towards the end it says "it" without defining whether "it" refers to data communication device or the wireless device.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1-8, 10-12 rejected under 35 U.S.C. 102(e) as being anticipated by Watts

6,023,587.

8. As per claim 1, Watts teaches a method for wireless data communication between a wireless device, having means for short-range data communication, and an electronic device, the method comprising: mounting a data communication device (Watts: PCMCIA card) having means for short-range wireless data communication in a general purpose expansion memory location (Watts PCMCIA card slot) of the electronic device (Watts: notebook computer); activating a short-range wireless data communication link between the wireless device and the data communication device (Watts paragraph 288, col. 71 lines 54 to 59: "Xircom LAN (2.4 GHz) transceiver PCMCIA card connected to a PCMCIA card slot on the notebook"; "Xircom base LAN (2.4 GHz) transceiver coupled to bus 20 of the docking station"); and transmitting data between the data communication device and the wireless device (Watts paragraph 288, col. 71 lines 54 to 59: "The RF interface in notebook computer 62 would comprise a Xircom LAN (2.4 GHz) transceiver PCMCIA card connected to a PCMCIA card slot on the notebook and a corresponding Xircom base LAN (2.4 GHz) transceiver coupled to bus 20 of the docking station 58.").

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9. As per claim 2, Watts teaches a method according to claim 1, wherein in order to enable the data transmission from the electronic device to the wireless device the following method steps are performed after the installation of the data communication device and before the activation of the data communication link: inputting data to the electronic device; and processing the data in the data communication device installed in an expansion memory location (Watts col. 74-75: "sends a signal to the RF module that says "What is your configuration""; thus configuration data has already been input to the electronic device and processed in the data communication device installed in an expansion memory location; electronic device (Watts: notebook computer), data communication device (Watts: PCMCIA card), data communication link (Watts: RF interface about 'what is your configuration?')).

10. As per claim 3, Watts teaches a method according to claim 2, wherein the data processing in the data communication device (Watts: PCMCIA card) is made by instructions from the electronic device (Watts: notebook computer).

11. As per claim 4, Watts teaches a method according to claim 1, wherein the data communication between the data communication device and the wireless device is made over a low power radio frequency (LPRF) link. (Watts: The RF module such as in fig. 343 is meant to communicate over a sort distance and thus will inherently be low power.)

12. As per claim 5, Watts teaches a method according to claim 1, wherein the data communication between the data communication device (Watts: PCMCIA card) and the wireless device is made on the basis of instructions given by the wireless device (Watts fig. 343: 1394 interface and PCMCIA card will receive information from the wireless device and hence data communication will be based on instructions given by the wireless device).

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13. As per claim 6, Watts teaches a method for wireless data communication between a wireless device, having means for short-range data communication, and an electronic device, the method comprising: mounting a data communication device (Watts: PCMCIA card) having means for short-range wireless data communication in a general purpose expansion memory location (Watts PCMCIA card slot) of the electronic device (Watts: notebook computer); activating a short-range wireless data communication link between the wireless device and the data communication device (Watts paragraph 288, col. 71 lines 54 to 59: "Xircom LAN (2.4 GHz) transceiver PCMCIA card connected to a PCMCIA card slot on the notebook"; "Xircom base LAN (2.4 GHz) transceiver coupled to bus 20 of the docking station"); and transmitting data between the data communication device and the wireless device (Watts paragraph 288, col. 71 lines 54 to 59: "The RF interface in notebook computer 62 would comprise a Xircom LAN (2.4 GHz) transceiver PCMCIA card connected to a PCMCIA card slot on the notebook and a corresponding Xircom base LAN (2.4 GHz) transceiver coupled to bus 20 of the docking station 58."), wherein the data communication between the data communication device and the wireless device is made automatically on the basis of the logic of the data communication device so that it is activated by the storage of data (rejected under 112).

14. As per claim 7, Watts teaches a method for wireless data communication between a wireless device, having means for short-range data communication, and an electronic device, the method comprising: mounting a data communication device (Watts: PCMCIA card) having means for short-range wireless data communication in a general purpose expansion memory location (Watts PCMCIA card slot) of the electronic device (Watts: notebook computer); activating a short-range wireless data communication link between the wireless device and the

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data communication device (Watts paragraph 288, col. 71 lines 54 to 59: “Xircom LAN (2.4 GHz) transceiver PCMCIA card connected to a PCMCIA card slot on the notebook”; “Xircom base LAN (2.4 GHz) transceiver coupled to bus 20 of the docking station”); and transmitting data between the data communication device and the wireless device (Watts paragraph 288, col. 71 lines 54 to 59: “The RF interface in notebook computer 62 would comprise a Xircom LAN (2.4 GHz) transceiver PCMCIA card connected to a PCMCIA card slot on the notebook and a corresponding Xircom base LAN (2.4 GHz) transceiver coupled to bus 20 of the docking station 58.”) wherein in order to enable the data transmission from the electronic device to the wireless device the following method steps are performed after the installation of the data communication device and before the activation of the data communication link: inputting data to the electronic device; and processing the data in the data communication device installed in an expansion memory location (Watts col. 74-75: “sends a signal to the RF module that says “What is your configuration””; thus configuration data has already been input to the electronic device and processed in the data communication device installed in an expansion memory location; electronic device (Watts: notebook computer), data communication device (Watts: PCMCIA card), data communication link (Watts: RF interface about ‘what is your configuration?’)) in that the input data is a picture reflected as light through the objective of a camera (Watts fig. 343: PC VIDEO 66; fig. 294: camera).

15. As per claim 8, Watts teaches a data communications device for wireless data communication between a wireless device, which has means for a short-range data link, and an electronic device, the data communication device comprising: a controller connectable to a general purpose interface of an expansion memory location of the electronic device, for

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controlling the operation of the data communication device, a short-range radio frequency wireless data communication unit and a short range radio frequency antenna (Watts: inherent for antenna to exist for sending and receiving wireless RF communication) for data communication; and a memory for storing the communicated data (Watts fig. 343). (remainder discussed above with Watts).

16. As per claim 10, teaches a data communication device according to claim 8, wherein the short-range data communication unit is an LPRF unit. (Watts: The RF module such as in fig. 343 is meant to communicate over a sort distance and thus will inherently be low power.)

17. As per claim 11, Watts teaches a data communications device for wireless data communication between a wireless device, which has means for a short-range data link, and an electronic device, the data communication device comprising: a controller connectable to a general purpose interface of an expansion memory location of the electronic device, for controlling the operation of the data communication device, a short-range LPRF wireless data communication unit (Watts: The RF module such as in fig. 343 is meant to communicate over a sort distance and thus will inherently be low power.) and a short range radio frequency antenna (Watts: inherent for antenna to exist for sending and receiving wireless RF communication) for data communication; a memory for storing the communicated data (Watts fig. 343); means for supplying a busy signal to the electronic device when the memory is processed by the radio link, and a busy signal to the LPRF unit when the memory is processed by the electronic device (Watts: last paragraph in col. 61 to first paragraph in col. 62) (remainder discussed above with Watts).

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18. As per claim 12, Watts teaches a data communications device for wireless data communication between a wireless device, which has means for a short-range data link, and an electronic device, the data communication device comprising: a controller connectable to a general purpose interface of an expansion memory location of the electronic device, for controlling the operation of the data communication device, a short-range LPRF wireless data communication unit (Watts: The RF module such as in fig. 343 is meant to communicate over a sort distance and thus will inherently be low power.) and a short range radio frequency antenna (Watts: inherent for antenna to exist for sending and receiving wireless RF communication) for data communication; a memory for storing the communicated data (Watts fig. 343); means for giving to the microcontroller an operation enable signal enabling the operation of the data communication device when the memory is processed by the electronic device, and a busy signal when the LPRF unit is occupied for data communication (Watts: last paragraph in col. 61 to first paragraph in col. 62) (remainder discussed above with Watts).

Allowable Subject Matter

19. Claim 9 is objected to as being dependent upon a rejected base claim and objected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and also rewritten to overcome the objection of claim 8.

20. The following is a statement of reasons for the indication of allowable subject matter: The art of record does not suggest the respective claim combinations together and nor would the respective claim combinations be obvious with the underlined portion: **the controller of the data**

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communication device comprises: a serial to parallel converter for converting parallel mode information of the memory into serial mode used by the short-range data communication unit, and correspondingly the serial mode information into the parallel mode; a splitter for connecting a parallel mode write and read connection of the memory alternatively to the interface of the expansion memory location of the electronic device or to the serial to parallel converter for a short-range data communication link; and a microcontroller for controlling the serial to parallel converter and the splitter.

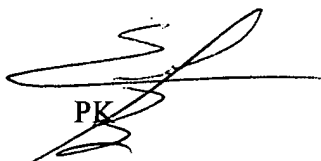
Conclusion

21. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Wilska 6,427,078.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pankaj Kumar whose telephone number is (703) 305-0194. The examiner can normally be reached on Mon, Tues, Wed and Thurs after 8AM to after 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour can be reached on (703) 306-3034. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.


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